

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=7; day=2; hr=13; min=59; sec=35; ms=473; ]

=====

Application No: 10593103 Version No: 2.0

**Input Set:**

**Output Set:**

**Started:** 2009-06-24 18:00:40.117  
**Finished:** 2009-06-24 18:00:42.478  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 361 ms  
**Total Warnings:** 178  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 210  
**Actual SeqID Count:** 210

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)

**Input Set:**

**Output Set:**

**Started:** 2009-06-24 18:00:40.117  
**Finished:** 2009-06-24 18:00:42.478  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 361 ms  
**Total Warnings:** 178  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 210  
**Actual SeqID Count:** 210

Error code      Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> MASHIMA, Yukihiko

<120> METHOD FOR DIAGNOSING OR PREDICTING SUSCEPTIBILITY TO OPTIC NEUROPATHY

<130> Q96480

<140> 10593103

<141> 2009-06-24

<150> PCT/JP2005/005601

<151> 2005-03-18

<150> US 60/553, 986

<151> 2004-03-18

<150> US 60/604, 704

<151> 2004-08-27

<150> US 60/607, 359

<151> 2004-09-07

<160> 210

<170> PatentIn version 3.2

<210> 1

<211> 360

<212> DNA

<213> Homo Sapiens

<400> 1

tctaagatta aaaatgcctt agcccacttc ttaccacaag gcacacacctac accccttatac 60

cccatactag ttattatcga aaccatcagc ctactcattc aaccaatagc cctggccgta 120

cgcctaaccg ctaacattac tgcaggccac ctactcatgc acctaattgg aagcgccacc 180

ctagcaatat caaccattaa cttccctct acacttatca tcttcacaat tctaattcta 240

ctgactatcc tagaaatcgc tgtcgcccta atccaaggct acgtttcac acttctagta 300

agcctctacc tgcacgacaa cacataatga cccaccaatc acatgcctat catatagtaa 360

<210> 2

<211> 300

<212> DNA

<213> Homo Sapiens

<400> 2

actggaaagc acgggtgctg tgggtactc ggggagcctc tatttccagg gcgctgagtc 60

cagaactgtc ataagatatg agctgaatac cgagacagtg aaggctgaga agggaaatccc 120

tggagctggc taccacggac agttcccgta ttcttggggt ggctacacgg acattgactt 180  
ggctgtggat gaaggcaggcc tctgggtcat ttacagcacc gatgaggcca aaggtgccat 240  
tgtcctctcc aaactgaacc cagagaatct ggaactcgaa caaacctggg agacaaacat 300

<210> 3  
<211> 540  
<212> DNA  
<213> Homo Sapiens

<400> 3  
ttagttccta caatggagtc atgtctggga agaatctagg gtccaatatg agccacatgt 60  
caagggccag gtgtgcata aagacaaagg gtgaagttat gagtcagagg ttggagtcata 120  
gtctgggtca aaggccagggt gtcaggcttg gccatggttc catcttgatg cacaggagct 180  
gaaggacagg atgacggaac ttttgcctt gagctcggtc ctggagcagt acaaggcaga 240  
cacgcggacc attgtacgct tgcgggagga ggtgaggaat ctctccggca gtctggcgcc 300  
cattcaggag gagatgggtg cctacgggtta tgaggacctg cagcaacggg tggatggccct 360  
ggaggccccgg ctccacgcct gcgcggcagaa gctgggtatg ctttggccct tggatggccct 420  
ccctgatctc tgactgccac acccaactcc agtacccat gtttgcctt agaagctgga 480  
cacagttttt acctctaact tttaaacctc aacccttgac cttcctaccc aaggctacac 540

<210> 4  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 4  
ttggcggtccc aagcaatgga tga 23

<210> 5  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 5  
tctgggaagg gacagaagat gac 23

<210> 6  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 6  
gatcgataag ttccgtttca cc 22

<210> 7  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 7  
tcaatcttag tcttgaagtg aggat 25

<210> 8  
<211> 600  
<212> DNA  
<213> Homo Sapiens

<400> 8  
tgctgggctt tgccatctac tggttcatct cccgggacaa agaggaaact ttgccactg 60  
aagatgggtg gtgggggcca ggcacgaggt ccgcagccag ggaggacgac agcatccgcc 120  
cttcaaggt ggaaacgtca gatgaggaga tccacgactt acaccagagg atcgataagt 180  
tccgtttcac cccaccttg gaggacagct gcttccacta tggcttcaac tccaactacc 240  
tgaagaaagt catctcctac tggcggaatg aatttgactg gaagaagcag gtggagattc 300  
tcaacagata ccctcaactc aagactaaaa ttgaagggtt ggacatccac ttcatccacg 360  
tgaagccccc ccagctgccc gcaggccata ccccgaagcc cttgctgatg gtgaacggct 420  
ggcccggttc tttctacgag tttataaga tcatcccact cctgactgac cccaagaacc 480  
atggcctgag cgatgagcac gttttgaag tcatctgccc ttccatccct ggctatggct 540  
tctcagaggc atcctccaag aaggggttca actcggtggc caccgccagg atctttaca 600

<210> 9  
<211> 780  
<212> DNA  
<213> Homo Sapiens

<400> 9

gcaggccccac caccggacc ccaacccag ccccctagca gagacctgtg ggaagcgaaa 60  
atccatggg actgacttgc tgctcttgc tttcagactt cctgaaaaca acgttctgg 120  
aaggacaagg gttgggctgg ggacctggag ggctggggac ctggagggct ggggggctgg 180  
ggggctgagg acctggtcct ctgactgctc tttcaccca tctacagtcc cccttgcctg 240  
cccaagcaat ggatgatttgc atgctgtccc cggacgatat tgaacaatgg ttcaactgaaag 300  
acccaggtcc agatgaagct cccagaatgc cagaggtgc tccccgcgtg gcccctgcac 360  
cagcagctcc tacaccggcg gcccctgcac cagccccctc ctggccctg tcattttctg 420  
tcccttccca gaaaacctac cagggcagct acggtttccg tctggcttc ttgcattctg 480  
ggacagccaa gtctgtgact tgcacggtca gttgccctga ggggctggct tccatgagac 540  
ttcaatgcct ggccgtatcc ccctgcattt ctttgttttgc aactttggg attccttcc 600  
accctttggc ttctgtcag tgttttttta tagtttaccc acttaatgtg tgatctctga 660  
ctcctgtccc aaagttgaat attccccct tgaatttggg cttttatcca tcccatcaca 720  
ccctcagcat ctctcctggg gatgcagaac ttttctttt cttcatccac gtgtattct 780

<210> 10  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 10  
gccataaaac tttcacca 19

<210> 11  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 11  
accataaaac tttcaccaa a 21

<210> 12  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 12

ccctacgggc tactacaacc cttcgctgac t

31

<210> 13

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 13

atgataaagtg tagagggaaag g

21

<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 14

gtgataaagtg tagagggaaag

20

<210> 15

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 15

ggcgacagcg atttctagga tagtcagtag aattagaatt gtgaagt

47

<210> 16

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 16

gccacaggct tcca

14

<210> 17

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 17

accacaggct tccac 15

<210> 18

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 18

catttccgac ggcatctacg gctcaacatt ttttgtat 38

<210> 19

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 19

gcatcataat cctctctcaa g 21

<210> 20

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 20

acatcataat cctctctcaa g 21

<210> 21

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 21

gcctagcaaa ctc当地 aactac gaacgcactc acagtct 37

<210> 22  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 22  
atggttgtct ttggatatac tac 23

<210> 23  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 23  
gtgggttgtct ttggatatac ta 22

<210> 24  
<211> 56  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 24  
ttttggggga ggttatatgg gtttaatagt ttttttaatt tatttagggg gaatgt 56

<210> 25  
<211> 19  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 25  
atttaggggg aatgatggt 19

<210> 26  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 26

gttttaggggg aatgatgg

18

<210> 27  
<211> 57  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 27

tgttattatt ctgaatttg gggaggtta tatgggtta atagttttt taatttt

57

<210> 28  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 28

cagtcagagg ttcaattcct c

21

<210> 29  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 29

tggggagggg ggttcatagt a

21

<210> 30  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 30

ggcgcaagtca ttctcataat

20

<210> 31  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 31

aagttaggaga gtgatatttg

20

<210> 32

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 32

gctttgttcc tggtagtgt

20

<210> 33

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 33

aaaatgccct agcccaacttc

20

<210> 34

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 34

gtcattatgt gttgtcggtgc

20

<210> 35

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 35

cacatccgtt ttactcgcat

20

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide primer

<400> 36

cggatgaagc agatagttag

20

<210> 37

<211> 360

<212> DNA

<213> Homo Sapiens

<400> 37

tctaaagatta aaaatgcctt agcccacttc ttaccacaag gcacacctac accccttata

60

cccatactag ttattatcga aaccatcagc ctactcattc aaccaatagc cctggccgta

120

cgcctaaccg ctaacattac tgcaggccac ctactcatgc acctaattgg aagcgccacc

180

ctagcaatat caaccattaa cttccctct acacttatca tcttcacaat tctaattcta

240

ctgactatcc tagaaatcgc tgcaggccac ctactcatgc acctaattgg aagcgccacc

300

agcctctacc tgcacgacaa cacataatga cccaccaatc acatgcctat catatagtaa

360

<210> 38

<211> 420

<212> DNA

<213> Homo Sapiens

<400> 38

taggagggca ctggccccc acaggcatca ccccgctaaa tcccctagaa gtcccactcc

60

taaacacatc cgtattactc gcatcaggag tatcaatcac ctgagctcac catagtctaa

120

tagaaaacaa ccgaaaccaa ataattcaag cactgcttat tacaattttt ctgggtctct

180

attttacccct cctacaagcc tcagagtact tcgagtttcc cttcaccatt tccgacggca

240

tctacggctc aacatttttt gtgccacag gcttccacgg atttcacgtc attattggct

300

caactttctt cactatctgc ttcatccgcc aactaatatt tcactttaca tccaaacatc

360

actttggctt cgaagccgcc gcctgatact ggcattttgt agatgtggtt tgactattc

420

<210> 39

<211> 420

<212> DNA

<213> Homo Sapiens

<400> 39

agccctcgta gtaacagcca ttctcatcca aacccctga agttcacgg gcgcaagtcat

60

tctcataatc gcccacgggc ttacatcctc attactattc tgcctagcaa actcaaacta 120  
cgaacgcact cacagtcgca tcataatcct ctctcaagga cttcaaactc tactcccact 180  
aatagcttt tgatgacttc tagcaagcct cgctaacctc gccttacccc ccactattaa 240  
cctactggga gaactctctg tgctagtaac cacgttctcc tgatcaaata tcactctcct 300  
acttacagga ctcaacatac tagtcacagc cctatactcc ctctacatat ttaccacaac 360  
acaatggggc tcactcaccc accacattaa caacataaaa ccctcattca cacgagaaaa 420

<210> 40  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 40  
tgagggtcg a gtcggccccc t 21

<210> 41  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 41  
tcgccaaaca tggccacaca t 21

<210> 42  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 42  
gccctgcagg tgtctgcagc atgt 24

<210> 43  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 43  
ggatggctct ccccgcttg tctc

24

<210> 44  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 44  
tggcagcaca ggcggccca ctac

24

<210> 45  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 45  
tcgcccagccc tcccatgccc ataa

24

<210> 46  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 46  
gaggttgagt gacatgttcg aaac

24

<210> 47  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 47  
cgtcatctgt ctaatgcaaa atgt

24

<210> 48  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer  
  
<400> 48  
cgtgatgtct ttatctggtt ttg

23

<210> 49  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer  
  
<400> 49  
cgaactttgg taatacagtt gtgg

24

<210> 50  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer  
  
<400> 50  
aaactacagt caccctactc acct

24

<210> 51  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer  
  
<400> 51  
ttcttcacaa actcttccaa

20

<210> 52  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer  
  
<400> 52  
ggattcagat ttctctttga a

21

<210> 53  
<211> 21

<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 53  
gcataaggagt atgatttaat c 21

<210> 54  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 54  
caggagggtt gaggcaggcag agcacag 27

<210> 55  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 55  
ctcacccagg aacctgctct ggaaacata 29

<210> 56  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 56  
ggaaatgtga gcagatagtg cagtc 25

<210> 57  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 57  
aatccggagc tggagaactc ttgtc 25

<210> 58  
<211> 360  
<212> DNA  
<213> Homo Sapiens

<400> 58  
attactgtaa actacagtca ccctactcac ctatctaaca ttaattgatt tttggtaaac 60  
taatctaatac ttgctttctg gcatcaacct cacttgacca tgggtatag tccctttcat 120  
atgttattgg attcaatttg cctacattt gttgagaatt tttatctata ctcttaagaa 180  
atattgatct gtagtctcgt gatgtctta tctgggtttg ttatcagggt gatactggcc 240  
tcatacgatg agttgggaga tcataccttac tcttctattt tttggaagag tttgtgaaga 300  
attgatatta ttcttcttt aaatatttta tgggtttta aaatacattt ttaaaatgca 360

<210> 59  
<211> 323  
<212> DNA  
<213> Homo Sapiens

<400> 59  
ggattcagat ttctcttga aacatgcttg tgtttcttag tgggtttta tatccatttt 60  
tatcaggatt tcctcttga ccagaaccag tcttcaact cattgcatca tttacaagac 120  
aacattgtaa gagagatgag cacttctaag ttgagtatat tataatagat tagtactgga 180  
ttattcaggc tttaggcata tgcttcttta aaaacgctat aaattatatt cctcttgcatt 240  
ttcacttgag tggaggttta tagtaatct ataactacat attgaatagg gcttaggaata 300  
tagattaaat catactccta tgc 323

<210> 60  
<211> 420  
<212> DNA  
<213> Homo Sapiens

<400> 60  
gtgtttctta gtggggttt atatccattt ttatcaggat ttctcttga accagaacca 60  
gtcttcaac tcattgcattc atttacaaga caacattgtt agagagatga gcacttctaa 120  
gttgagttata ttataataga ttagtactgg attattcagg cttaggcattt atgcttcttt 180  
aaaaacgcta taaattatattt ttctcttgcata ttcaattttt gttggaggtttt atagttatc 240  
tataactaca tattgaatag ggcttaggaat atagataaa tcatactcctt atgctttagc 300  
ttatcttac agttatagaa agcaagatgt actataacat agaattgcaa tctataatat 360

tttgtgtttc actaaactct gaataagcac tttttaaaaa actttctact cattttaatg 420

<210> 61  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 61  
cttgccttc agcttgg 17

<210> 62  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic oligonucleotide primer

<400> 62  
attgccttc agcttgg 17

<210> 63  
<211> 31  
<212> DNA  
<213> Artificial Sequence